

HIGHLY ORIENTED UNDRAWN YARN OF POLYPROPYLENE TEREPHTHALATE AND ITS PRODUCTION

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Abstract

PROBLEM TO BE SOLVED: To produce a highly oriented undrawn yarn of polypropylene terephthalate capable of suppressing problems in a conventional two-step method for the highly oriented undrawn yarn of the polypropylene terephthalate, i.e., a change in filaments with time after spinning, imparting flexibility to the production and improving productivity and to provide a method for producing the yarn.

SOLUTION: This highly oriented undrawn yarn of polypropylene terephthalate comprises polyester filaments in which at least 90 mol% of polymer components forming the filaments are composed of propylene terephthalate units and satisfies the following formulae (1) to (4): (1) strength ST (g/d): $2.0 \leq ST$, (2) birefringence Δn (10⁻³): $30 \leq \Delta n \leq 60$, (3) elongation EL (%): $80 \leq EL \leq 250$ and (4) shrinkage percentage in boiling water SW (%): $3 \leq SW \leq 15$.

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